
Annual Subject Index: 1995

- Aggregation techniques
 - stochastic petri nets, process algebras 600
- AI systems
 - real-time, applying imprecise computation 434
- Algebra
 - for structured text search, framework for implementation 43
- Algorithm
 - hardware-oriented priority queue, tagged up/down sorter 695
 - performance of work-optimal PRAM simulation algorithms, coated meshes 801
 - construction, double-ended priority queues 818
 - deadlock detection, stochastic petri net analysis, 717
- Alphabets
 - large, practical length-limited coding 339
- Analysis
 - complex safety critical systems 765
 - probabilistic error checking procedures on storage systems 348
- Architecture
 - shared memory, hierarchical and directory-based 207
- Binary decision diagrams
 - HOL derived rule 162
- Bipartite
 - graph matching, associative-commutative matching 381
- B^{link} -tree
 - degradable periodic data reorganization 245
- Branch prediction
 - periodic adaptive, application in superscalar processing in Prolog 457
- C-ODA project
 - journals database, SGML documents into ODA representation 670
- Calculator
 - new, why it is necessary 418
- Calculus
 - π , stochastic 578
- Coding
 - practical length-limited, large alphabets 339
- Complex systems
 - refinement, Temporal Agent Model 785
- Compositional construction
 - SWN models 612
- Computation
 - applying imprecise, real-time AI systems 434
- Computer architects
 - flexible toolset, HASE 755
- Computer Board
 - 1966-1991, computing in British universities 822
- Condition generator
 - mechanical verification 131
- Control theory
 - optimization 734
- Critical
 - information systems 413
- 'cross' rectangle
 - intersection problem 227
- Data parallelism
 - symmetries 365
- Data reorganization
 - periodic, degradable B^{link} -tree 245
- Database systems
 - distributed systems, concurrency control for time-constrained transactions 704
 - transaction, petri net analysis of deadlock detection algorithms 717
- Database
 - journals, SGML, C-ODA project 670
 - long-duration transactions, effect of failures 471
- Decomposition technique
 - time-scale, process algebras 566
- Design
 - digital system, an engineering approach 101
 - real-time system framework, distributed pipeline scheduling 271
 - tracking changes with formal machine-checked proof 91
- Deterministic branching
 - characterization of immediate actions in SPA 530
- Digital system
 - design, an engineering approach 101
- Directory
 - hierarchical, shared memory architecture 207
- Discs
 - two-headed, non-linear, time to travel 811
- Distributed algorithms
 - mechanical verification of in higher-order logic 152
- Distributed databases
 - concurrency control for time-constrained transactions 704
- Distributed systems
 - hierarchical protocol for decentralizing information dissemination 57
 - securing causal relationships 633
- Duration calculus
 - optimization of hybrid systems 734
- Embedded software
 - rigorous verification, graphical programming paradigm 301
- Embedding
 - meshes and trees 71
- EMPA
 - distributed semantics, stochastic contextual nets 492
- Functional data model
 - incomplete information 31
- FunZ
 - intermediate specification language 193
- Graph matching
 - bipartite, associative-commutative matching 381
- Graphical programming paradigm
 - exploiting to facilitate rigorous verification of embedded software 301
- Graphical visualization
 - tools for parallel programming 658
- HASE
 - flexible toolset, computer architects 755

Annual Author Index: 1995

- AGERHOLM, S. 121
AHMAD, I. 237
- BERNARDO, M. 492
BOZANIS, P. 478
BRINKSMA, E. 552
BRISEBOIS, M. 643
BROWNE, R. F. 71
BURKOWSKI, F. J. 43
BUSI, N. 492
- CAMPBELL-KELLY, M. 400
CARVER, D. L. 193
CHATTERJEE, S. 271
CHEN, I.-R. 245, 348, 434, 717
CHEN, J. 818
CHOU, C.-T. 152
CHUNG, C.-P. 457
CLARKE, C. L. A. 43
CONNOR, R. C. H. 1
CORMACK, G. V. 43
CURRIE, E. 471
CURZON, P. 91
CUTTS, Q. I. 1
- DAWSON, S. 286
DEIGHTON, K. 811
DHODHI, M. K. 237
DUNSTAN, V. S. 1
- EKER, S. M. 381
EVERED, M. 181
- GERORD WOLFF, J. 253
GILMORE, S. 489
GONG, L. 633
GORRIERI, R. 492
GRAHAM, B. T. 695
GUNTER, E. 142
- HALANG, W. A. 301
HARRISON, J. 162
HARRISON, P. 510
HAVERKORT, B. R. 521
HE, W. 734
HERMANN, H. 530
HEYWOOD, P. E. 755
HILLSTON, J. 489, 510, 566
HOLTON, D. R. W. 542
HOMEIER, P. V. 131
- HOWELL, F. W. 755
HUNG, S.-L. 704
- IBBETT, R. N. 755
- JAHANIAN, F. 286
JIANG, Y.-D. 355
- KAPELIOS, V. 227
KATOEN, J.-P. 552
KIERONSKA, D. 207
KING, P. J. H. 31
KIRBY, G. N. C. 1
KIRSTEIN, P. 670
KÖLLING, M. 181
KOSTER, C. H. A. 691
KRÄMER, B. 301
KUMAR, M. J. 207
KUMAR, R. 111
- LAM, K.-Y. 704
LANGERAK, R. 552
LARSSON, M. 101
LATELLA, D. 552
LEPAGE, F. 643
LEPPÄNEN, V. 801
LEUNG, C. H. C. 471
LOWE, G. 443, 785
- MA, R.-L. 457
McDERMID, J. A. 765
MACIAS, B. 310
MAHARAJ, S. 142
MAKRIS, C. 478
MARLOWE, T. J. 319
MARTIN, D. F. 131
MARWAHA, G. 658
MELHAM, T. F. 89
MERTSIOTAKIS, V. 566
MILLS, S. 413
MOFFAT, A. 339
MONTASSER-KOHSARI, G. 670
MOORE, S. W. 695
MORRISON, R. 1
- NIE, J.-Y. 643
- PANAGOPOULOU, G. 227
PAPAMICHAIL, G. 227
PATNAIK, L. M. 207
- PITT, D. 777
PRIAMI, C. 578
PULMAN, S. G. 310
- REITER, M. 633
RETTELBACH, M. 530, 590
RIBAUDO, M. 600
ROJAS, I. 612
RUIZ-DELGADO, A. 777
- SCHMOLITZKY, A. 181
SERENO, M. 622
SHAFARENKO, A. 365
SHEN, H. 217
SHERRELL, L. B. 193
SIRMAKESISS, S. 227
SMYTHE, C. 777
STOYENKO, A. D. 319
STROSNIDER, J. 271
SUTTON, D. R. 31
SYMONIS, A. 681
- TAHAR, S. 111
THIMBLEBY, H. 418
TRYBUS, L. 301
TSAKALIDIS, A. 227, 478
TURPIN, A. 339
- VAN DER WEIDE, Th. P. 691
VAUGHAN, J. G. 57
VENKATESH, S. 207
VERDON, F. P. 822
VON WRIGHT, J. 171
- WANG, H.-J. 355
WEISS, T. 530
WELLS, M. 822
WIERINGA, R. J. 17
WILSON, S. P. 765
WOLFF, J. G. 253
WU, H.-Z. 355
- YEN, I.-L. 348
YOUNIS, M. F. 319
- ZEDAN, H. 785
ZHANG, K. 658
ZHOU, C. 734

- Higher-order logic
 - mechanical verification of distributed algorithms 152
 - representing proofs in HOL 171
- HOL
 - derived rule, binary decision diagrams 162
 - LCF examples 121
 - ML module system 142
 - representing higher-order logic proofs 171
- Hybrid systems
 - optimization 734
- Hypercubes
 - efficient parallel k -set chain range-join 217
- ICL
 - evolution of the British mainframe 400
- Incomplete information
 - functional data model 31
- Information retrieval
 - counterfactual conditional logic 643
- Information systems
 - becoming critical 413
- Information
 - dissemination in distributed systems, hierarchical protocol 57
- Intersection
 - problem, 'cross' rectangle 227
- Language
 - complex real-time systems 319
 - controlling the production of specifications in natural language 310
 - FunZ, intermediate specification language 193
 - object invocation, object-oriented language definition 181
 - Temporal Agent Model, refinement calculus 785
- LCF
 - examples in HOL 121
- Logic theorem
 - higher order, proving, applications 89
- m -way graph
 - partitioning problem 237
- Mainframe
 - evolution of British, ICL 400
- Manipulation
 - signature files, parametric weighted filter 478
- Markov models
 - probabilistic evaluation of high-level specified 521
- Markovian process algebra
 - models, quasi-reversible structures 510
 - probabilistic branching 590
- Mechanical verification
 - distributed algorithms, higher-order logic 152
- Merging
 - in-place merging of sequences 681
- ML module system
 - studying in HOL 142
- Modelling methods
 - combining static and dynamic, comparison of four methods 17
- Networks
 - chordal ring, embedding of meshes and trees 71
- Object-oriented
 - approaches in formal specification 777
 - language definition, flexible object invocation language 181
- Parallel programming
 - a graphical visualization, Visputer 658
- Partitioning
 - problem, m -way graph 237
- PEPA
 - specification, industrial production cell 542
- Performance analysis
 - cluster-based PPMB multiprocessor systems 355
- Performance modelling
 - application of process algebras 489
- Persistent linkage
 - exploiting in software engineering environments 1
- Petri net
 - analysis of deadlock detection algorithms 717
- Pipeline conflicts
 - RISC
 - formal specification and verification techniques 111
- PRAM
 - simulation algorithms on coated meshes 801
- Priority queues
 - double-ended, construction algorithm 818
 - hardware-oriented algorithm, tagged up/down sorter 695
- Probabilistic error checking procedures
 - on storage systems, analysis 348
- Probability mass
 - in search of, Markov models 521
- Process algebra
 - application to performance modelling 489
 - Markovian, probabilistic branching 590
 - stochastic causality-based 552
 - stochastic, time-scale decomposition technique 566
 - stochastic, towards a product form solution 622
 - stochastic, petri nets, aggregation techniques 600
- Production cell
 - industrial, PEPA specification 542
- Prolog
 - superscalar processing, periodic adaptive branch prediction 457
- Protocols
 - dependable distributed, probing and fault injection 286
- Proving
 - higher order logic theorem 89
- Quasi-reversible structures
 - Markovian process algebra models 510
- Real-time systems
 - scheduling-oriented models 443
 - AI systems, applying imprecise computation 434
- RISC
 - pipeline conflicts, specification and verification techniques 111
 - safety critical systems
 - integrated analysis 765
- Scheduling
 - distributed pipeline, distributed and heterogeneous real-time system design framework 271
- Search trees
 - random, hairy 691

SUBJECT INDEX

- Seek arm
 - two-headed, non-linear discs 811
- Sequences
 - optimal stable in-place merging 681
- SGML
 - journals database, C-ODA project 670
- Signature files
 - efficient dynamic manipulation, parametric weighted filter 478
- Software engineering
 - environments, exploiting persistent linkage 1
- SP
 - what is it, a reply 253
- SPA
 - characterization of immediate actions, deterministic branching 530
- Specifications
 - controlling the production in natural language 310
- Stochastic contextual nets
 - distributed semantics for EMPA 492
- Stochastic
 - π -calculus 578
- Structured text search
 - algebra, framework for implementation 43
- Superscalar processing
 - Prolog, periodic adaptive branch prediction 457
- SWN models
 - compositional construction 612
- Symmetries
 - data parallelism 365
- Systems
 - complex real-time, language 319
 - distributed and heterogeneous real-time design framework, distributed pipeline scheduling 271
 - cluster-based PPMB multiprocessor, performance analysis 355
 - real-time, scheduling-oriented models 443
 - storage, analysis of probabilistic error checking procedures 348
- Temporal Agent Model
 - refinement of complex systems 785
- Toolsets
 - HASE, computer architects 755
- Transactions
 - concurrency control for time-constrained, distributed database systems 704
 - long-duration database, effect of failures 471
- Trees
 - random search, AVL, Fibonacci, 2-3 691
- Universities
 - British, The Computer Board 822
- Verification
 - mechanical, condition generator 131
- Visputer
 - graphical visualization tools for parallel programming 658
- Weighted filter
 - parametric, dynamic manipulation of signature files 478

